Pukekura Park Portal Project

The Pukekura Park Portal Project is a Community Partnership Fund Project coordinated by The Friends of Pukekura Park in partnership with Puke Ariki, New Plymouth.

This Project is a pilot for T.E.R:R.A.I.N.

"Taranaki Educational Resource: Research, Analysis and Information Network"

and sets out to digitise community data and create a resource of georeferenced material suitable for analysis using Geographic Information Systems. Under access agreements the public use of the information will be allowed for non-profit purposes.





Pukekura Park Portal Project

Partnership between

- Friends of Pukekura Park
- Puke Ariki museum and library complex
- NPDC community assets parks and GAS

Funded by the Community Partnership Fund NZ Digital Strategy







Puke Ariki and T.E.R:R.A.I.N

- Collecting and the Web
- community data sets
- citizen scientist
- geographical information (GIS)







Puke Ariki Customer Services



• Kete

 Aotearoa People's Network





What is GIS?

Geographic Information Systems manage, analyse, and display geographic knowledge in interactive ways.

Geographic Datasets are file bases and databases of geographic information—features, networks, topologies, terrains, surveys, and attributes.

Data Models incorporate advanced behaviour and integrity like other information systems and play a critical role in GIS.

Metadata enables users to organise, discover, and gain access to shared geographic knowledge.

Reference: ESRI www.esri.com





GIS arranges information in layers.

Each theme has specific attributes, and may be turned on or off as desired.

The relationships between data sets may be analysed.



Reference: ESRI http://www.esri.com/industries/libraries/news-community/data-model-botanical.html





Data Issues: Where does the information come from?

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Data Issues:

Where does the information come from?

- The raw data has to come from trusted sources
- With fine scale data you may more accurately manage resources
- Where is data lacking?
- National datasets could combine data from academic research projects, NGOs, consultants and the community.





Who in the community?

"Community groups have access to many forms of data and information that are qualities of the community itself and are therefore not available from any source other than from the community. Traditional ecological knowledge, local spirituality, aesthetic and amenity values are relevant examples"



(Thomas Meredith, founder of PPGIS, 1998).





Public Participatory GIS

Geographic information technologies are used in participatory settings and support:

- community inclusion and engagement
- integrated conservation and development
- sustainable natural resource management
- discussion of customary property rights







(Global Learning and Observations to Benefit the Environment)





Where do you store the data?



A digital archive developed with Digital Strategy funding and to be available to most libraries next year.







Load data to the Kete community data repository

Assist testing the ESRI Botanic Gardens data model with the University of California Davis Arboretum.

Plan to incorporate the needs of other community groups involved in Pukekura Park

Demonstrate how PPGIS contributes to public stewardship and engagement







for the following phase April 2009 - 2010

- Funding to enable accurate mapping of Pukekura Park botanic information
- Find an academic partner to mesh Pukekura Park datasets to urban design applications
- Continue discussion with national agencies to enable community information incorporation
- Negotiate reciprocal data flow









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Native Tree 2, Kauri

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LOCATION:	Foot of Monument Hill, Pukekura Park.
DATE MEASURED:	1969
HEIGHT:	66 ft (20.1 m)
CANOPY SPREAD:	-
DBH:	24 in (61 cm)
BURSTALL'S NOTES:	The following is from a letter by W.W. S

BURSTALL'S NOTES: The following is from a letter by W.W. Smith, a well-known natural historian and custodian of Pukekura Park, 1908 to 1921, to the Parks and Reserves Department dated 4th May 1936: "The young tree, when seven years old was presented to the park by the late Captain Waller in 1909. It grew for two years in the lawn where the larger of two Puriris are now growing. In March 1911 it was planted where it now grows. I attribute its rapid and vigorous growth to its being planted in the rich black soil with which the walk was made. This soil was thrown out from the bottom of the extension of the lake above the upper bridge, by a gang of Maori's who completed the work. The tree is growing in a warm and sheltered valley, which also greatly favours its growth."

CURRENT READINGS

UPDATED LOCATION: Pukekura Park, 65 m from the upper, smaller, bridge on the track heading towards Brooklands through the Rhododendron Dell.

DATE MEASURED:	30th January 2002
HEIGHT:	24.3 m
CANOPY SPREAD:	13.3 m; only one reading possible as the east to west canopy is overhanging the
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